

Capabilities		Bowie State University	Morgan State University
Biomedical Research/Biology			
Bioinformatics		X	X
Botany		X	
Aging effects on muscle mass		X	
Plant Metabolomics		X	
Physiology		X	
Ecotoxicology		X	
Genetics		X	
Plant Genomics		X	
Germplasm Analysis		X	
Research on Special habitats		X	
DNA Fingerprinting		X	
DNA Barcoding		X	
HIV/AIDS			X
Neurodevelopment/ neurodisorders			X
Molecular and developmental genetics			X
Environmental Toxicology			X
Environmental microbiology			X
Chemistry			
Organic/Synthetic Chemistry		X	
Design and synthesis of anti-cancer, anti-microbial and broadspectrum anti-viral compounds		X	
Design and synthesis of biologically active small molecules with medicinal applications		X	
Developing imageable small molecules to be used for drug delivery		X	
Polymerization reactions and microgravity			X
Analytical sensors for monitoring pollutants and biological activity			X
Synthesis of fluorescent dyes and conductive polypyrrole polymers for biosensors			X
Development of near infrared dyes for use in biological sensors and inorganic compounds for use in cancer treatment			X
Computer modeling; Bioinformatics			X
Mathematics/Computer Science/Information Systems			
Security in wireless and data networks		X	

Parallel algorithms and high-performing computing	X	
Embedded systems	X	
Robotics	X	
Programming Languages	X	
Data Mining	X	
Intrusion detection	X	
Data Privacy	X	
Artificial Intelligence	X	X
Machine learning	X	
Natural language processing and cognitive agents	X	
Operating systems	X	
Networks and software engineering	X	
Image processing	X	X
Image Compression	X	
Super Resolution	X	
Neural networks	X	
Pattern recognition	X	
Application development and technology support services	X	
Computer modeling, engineering and Bioinformatics		X
Computational sciences, Information Assurance		X
Nonlinear functional analysis		X
Free boundary problems in fluid mechanics		X
Almost automorphy and almost periodicity		X
Electrical and Computer Engineering		
Development of advanced engineering visualization tools and courseware		X
Virtual reality and biomedical instrumentation		X
Microelectromechanical systems (MEMS) research		X
Microwave electro thermal micro propulsion systems		X
Geo-spatial reasoning methods for aircraft synthetic vision systems		X
Civil Engineering		
Adaptive structures and control technology		X
Analytical and numerical modeling of land		X
Remediation of biological warfare agents		X

Earthquake resistant structures
 Analytical and experimental studies of adaptive retrofits to bridge girders
 Development of counter-rotating fly-wheel actuators

X
 X
 X

Industrial Engineering

Smart structures and active structural control for vibration suppression
 Embedded sensors and actuators
 Human factors psychology and social marketing
 Robotics and automation
 Routing and scheduling manufacturing systems
 Laser-based diagnostic instrumentation
 Reliability Engineering and Risk Assessment

X
 X
 X
 X
 X
 X
 X

Forensic Science

Security and forensics in small-scale
 Wireless
 Mobile devices
 Computer forensics
 Cybersecurity

X
 X
 X
 X
 X

Physics

Nanotechnology
 Mossbauer spectroscopy
 Condensed matter physics
 Acoustics and inverse problem theory
 Magnetic thin films; Bioinformatics

X
 X
 X
 X
 X

Psychology/Behavioral Sciences/ Social Services/ Criminal Justice

Clinical and Health psychology
 Brain-based learning
 Bio-feedback and psychophysiological analysis of depression and anxiety disorders
 Comparison analysis of how learning occurs
 Social services and social work training and reasearch for adults, children and families
 Program Evaluation
 Criminal justice research and services

X
 X
 X
 X
 X
 X
 X

Ex-offender services and training
 Sexual assault prevention and victim advocacy services
 Alcohol and drug prevention services
 HIV family services outreach
 Adult caretakers research

X
 X
 X
 X
 X

Business/ Management Information Systems

Financial market microstructure
 Marketing solutions and training
 Entrepreneurship
 Economic Analysis
 Forecasting
 Processing
 International Economics
 Safety and risk management
 Project Management
 Business Development Training
 Web Development
 Data Analytics
 Mapping Services

X
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Transportation and Urban Infrastructure Studies

Traffic and Highway engineering
 Planning and management and logistics

X
 X
 X

Community Health and Policy

Behavioral Health Sciences
 Public Health Analysis
 Health Policy and Management

X
 X
 X
 X

Coppin State University -Capabilities

College of Arts & Sciences and Education

The College is organized into two schools that house a total of five departments, ranging from Humanities to Teaching and Learning, which offer relevant and rigorous programs for interested students. The School of Arts and Sciences offers degree programs at the undergraduate level in a variety of disciplines, including STEM, which has agreements with federal agencies such as NASA, the U.S. Department of Education, the Department of Health and Human Services, and the National Science Foundation. The programs prepare students for lucrative careers, as they develop strengths as communicators, innovators, critical thinkers, and problem solvers. In addition, the School of Arts & Sciences provides foundational courses within the university's General Education Program. The School of Education offers undergraduate and graduate programs that prepare students to enter or further their careers in the education profession. Graduates of the School score 100% on the PRAXIS II examination. Renowned for its expertise in preparing urban 2 teachers, academic programs include certification programs in Early Childhood, Elementary, Secondary, Special Education, and Public School Administrator. The School produces educators who enter into graduate and professional schools throughout the region as well as begin teaching careers within the Baltimore City Public Schools System, Baltimore County Public Schools, and other surrounding school systems.

College of Business

The College is accredited by the Accreditation Council for Business Schools and Programs (ACBSP). Through the excellence of its faculty, staff, students, and administrators, the college provides financial literacy workshops, tax preparation, partnering with organizations such as, Open Works for job training and community development, and professional mentoring. Additionally, the College of Business partners with PNC Bank & SPCA of MD for community-related projects, and offers the in-person or optional online, B.S. in Management degree to increase college access to students and members of the community. Agreements and other initiatives within the College have been strategic and continuous, and serve large constituencies of West Baltimore and beyond.

College of Health Professions Capabilities

CHP's institutional capabilities related to teaching include the preparation of analytical, socially responsible health care professionals and healthcare scientist as leaders and lifelong learners. Our scholars are able to synthesize advanced didactic knowledge into practice thus meeting the needs of our shareholders both locally and globally. The faculty are actively, who are social change agents, engage in scientific inquiry, evidence-based practice, grant writing, and scholarly presentations in local, national, and global settings. Our faculty and staff participate in civic and community service initiatives that positively influence and transform the lives of those we serve. The College, through its School of Nursing operates two Health Centers, the CSU Community Health Center and the Coppin Clinic at St. Frances. The Health Centers have the unique mission to provide health care and health education that is culturally competent and responsive to meet the societal needs, demands, and values in an urban setting. The College of Health Professions accomplishments include nationally certified faculty, nationally accredited programs in Nursing and Health Information Management, and recognition as a National League of Nursing (NLN) Simulation Innovation Resource Center (SIRC), Clinical Simulation Center.

College of Behavioral and Social Sciences (CBSS)

The College prepares practitioners for the world of work in the human service professions. CBSS has 10 undergraduate, four graduate, and seven certificate programs. The Dr. Dorothy I. Height Center for Social Justice, the Ticket-to-Work Program for persons with disabilities, a GIS laboratory, and a 6-credit Study-Aboard Program. It is housed in a 'smart facility' which features a state-of-the-art forensics lab, a crime-scene room, an Independent Living Laboratory and a GIS laboratory to provide action-oriented, hands-on, interdisciplinary education that also produces the university's highest level of days committed to service to the community by students and faculty. This occurs across five departments of study: The Department of Applied Social and Political Sciences, the department of Criminal Justice and Law Enforcement, the Interdisciplinary Studies Program, the Department of Psychology, Counseling, and Behavioral Health, and the Department of Social Work.

School of Graduate Studies

There are currently one doctoral program (Doctor of Nursing Practice), 11 master's degrees, one certificate of advanced study, two postmaster's and five post-baccalaureate certificates. The School of Graduate Studies functions as the supportive and administrative unit for all graduate, post-masters, and postbaccalaureate programs at the University ranging from recruitment, enrollment and retention to degree completion. The Graduate Council operates under the auspice of Graduate Studies and functions as the policy and standards developer and compliance entity for graduate programs. This unit provides bi-annual new graduate student orientations and professional development workshops for graduate and undergraduate students covering topics such as APA editorial style, ethics, virtual and on-site research and library skills, fundamentals of statistics utilization, leadership conceptualization, technology applications, and achieving life balance. The annual Graduate Research Colloquium is hosted by Graduate Studies.

STEM Center

The university established a STEM Center in the fall of 2013. The Center assists in the coordination of academic programming and initiatives to strengthen the pipeline of STEM graduates to the Maryland Workforce. A STEM coordinator directs and assists with collaborative efforts among the sciences, mathematics, and health professions. The coordinator also tracks and monitors students from the time they enter the university to completion of their programs and assists with career placement and/or entry into graduate and professional schools.

Center for Nanotechnology

The Center brings together faculty members and students from the College of Arts and Sciences for collaborative research. It has benefited from financial support from Constellation Energy, Technology Development Corporation (TEDCO), the U.S. Department of Education and the National Science Foundation. The work focuses on experimental research and development of nano- and bio-technologies as well as on complementary modeling and simulation efforts in computational nanotechnology, computational nano-electronics, and processes encountered in nanofabrication. A key area of research focuses on clean energy generation and storage and ongoing projects in the design and simulation of multi-junction photovoltaic cells for solar energy conversion.

The Honors College

An Honors Program experience is offered to students who have demonstrated exceptional ability as high school, currently-enrolled, or transfer collegians. The Honors Program focuses primarily on providing academic preparation, character development, and cultural enrichment, and exposes highly motivated students to the research process and to standardized test preparation. A major goal of Honors is that of preparing Honors students for graduate study and/or professional employment.

Bowie State University

Dr. Anika Bissahoyo

Director, Office of Research & Sponsored Programs
14000 Jericho Park Road

Bowie, MD 20715

Phone: (301) 860-4399

Email: abissahoyo@bowiestate.edu

DUNS No. 616163721

FEIN 52-6002033

Morgan State University

Dr. Willie E. May

Vice President for Research & Economic Development

Email: victor.mccrary@morgan.edu

Phone: 443-885-4630/4631

Dr. Mildred Huff Ofosu

Assistant VP for Research Administration

Email: mildred.ofosu@morgan.edu

Phone: 443-885-4505

Dr. Timothy Akers

Assistant VP Research Innovation and Advocacy

Email: timothy.akers@morgan.edu

Phone: 443-885-3798

Coppin State University

Thomas E. Dawson, Jr., C.P.M.

Assistant Vice President for Procurement & Business Services

2500 West North Avenue

Baltimore, MD 21216

Phone: 410-951-3792